

1. In an information retrieval system including a server computer and a client
2 system having a display device, wherein the client system has access to television
3 programming viewed by a user of the information retrieval system, a method for inserting an
4 advertisement into a document displayed on the display device, the method comprising the
5 steps of:

6 compiling a profile of the user of the information retrieval system, including
7 at least information associated with the television programming viewed by the user;

8 requesting, by the client system, an information document from the server
9 computer;

10 selecting, based at least in part on the profile and on designated selection
11 criteria, an advertisement from among a plurality of advertisements for insertion into
12 the information document;

13 inserting data representing the selected advertisement into the information
14 document; and

15 displaying the information document, including the selected advertisement,
16 on the display device.

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18 2. A method as defined in claim 1, wherein the step of inserting data
19 representing the selected advertisement is conducted at the server computer.

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21 3. A method as defined in claim 1, wherein the step of inserting data
22 representing the selected advertisement is conducted by an Internet service provider.

1 4. A method as defined in claim 1, wherein the step of inserting data
2 representing the selected advertisement is conducted at the client system.

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4 5. A method as defined in claim 4, further comprising, before the step of
5 selecting an advertisement, the step of receiving the plurality of advertisements at the client
6 system.

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8 6. A method as defined in claim 5, further comprising the step of storing the
9 plurality of advertisements at the client system after the step of receiving the plurality of
10 advertisements.

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12 7. A method as defined in claim 1, wherein the information document is an
13 HTML document.

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15 8. A method as defined in claim 1, wherein the step of compiling the profile
16 includes the step of including in the profile user information further characterizing the user,
17 in addition to the television programming viewed by the user.

1 9. In an information retrieval system including a server computer and a client
2 system having a display device, wherein the client system has access to television
3 programming viewed by a user of the information retrieval system, a method for inserting an
4 advertisement into a document displayed on the display device, the method comprising the
5 steps of:

6 compiling a profile of the user of the information retrieval system at the client
7 system, the profile including at least information associated with the television
8 programming viewed by the user;

9 transmitting the profile from the client system to the server computer;

10 requesting, by the client terminal, an information document from the server
11 computer;

12 selecting, by the server computer, an advertisement from among a plurality of
13 advertisements for insertion into the information document, the advertisement being
14 selected based at least in part on the profile and on designated selection criteria;

15 inserting, by the server computer, data representing the selected
16 advertisement into the information document;

17 transmitting the information document, including the data, to the client
18 system; and

19 displaying the information document, including the selected advertisement,
20 on the display device.

1 10. A method as defined in claim 9, wherein the step of compiling the profile
2 comprises the step of identifying content of the television programming using an electronic
3 television programming database having a content description corresponding to the
4 television programming.

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6 11. A method as defined in claim 9, wherein the step of compiling the profile
7 comprises the step of identifying content of the television programming by monitoring
8 closed captioning information associated with the television programming.

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10 12. A method as defined in claim 9, wherein the step of compiling the profile
11 comprises the step of including demographic information associated with the user in the
12 profile.

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1 13. In an information retrieval system including a server computer and a client
2 system having a display device, wherein the client system has access to television
3 programming viewed by a user of the information retrieval system, a method for displaying
4 information on the display device in response to the television programming, the method
5 comprising the steps of:

6 monitoring, by the client system, television programming viewed by the user
7 of the information retrieval system;
8 comparing the television programming viewed by the user to a plurality of
9 information categories to identify at least one information category that corresponds,
10 according to designated selection criteria, with the television programming;
11 requesting, by the client system, an information document classified under
12 the at least one identified information category from the server computer; and
13 displaying the information document on the display device.

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15 14. A method as defined in claim 13, wherein the information document includes
16 news.

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18 15. A method as defined in claim 13, wherein the information document includes
19 reference information relating to the content of the television programming.

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21 16. A method as defined in claim 13, further comprising, prior to the step of
22 comparing the television programming viewed by the user to the plurality of information
23 categories, the step of selecting the plurality of information categories based in part on user
24 input.

1 17. A method as defined in claim 13, further comprising, prior to the step of
2 comparing the television programming viewed by the user to the plurality of information
3 categories, the step of selecting the plurality of information categories based at least in part
4 on a profile of the user.

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6 18. A method as defined in claim 17, wherein the profile includes information
7 associated with the television programming viewed by the user.

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9 19. A method as defined in claim 13, wherein the step of requesting an
10 information document is conducted without direct user assistance.

1 20. A computer program product for implementing a method of displaying an
2 information document including an advertisement selected at least in part on television
3 programming viewed by a user of an information retrieval system, wherein the method is
4 implemented in a client system of the information retrieval system, the computer program
5 product comprising:

6 a computer-readable medium carrying computer-executable instructions for
7 implementing the method, wherein the computer-executable instructions comprise:

8 program code means for monitoring television programming viewed
9 by the user;

10 program code means for compiling a user profile, wherein the user
11 profile includes information associated with the television programming
12 viewed by the user;

13 program code means for requesting an information document from a
14 server computer; and

15 program code means for displaying the information document having
16 the advertisement included therein, wherein the advertisement has been
17 selected from a plurality of advertisements based at least in part on the user
18 profile.

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20 21. A computer program product as defined in claim 20, wherein the computer-
21 executable instructions further comprise program code means for initiating transmission of
22 the user profile to the server computer, wherein the advertisement is selected from the
23 plurality of advertisements at the server computer.

- 1 22. A computer program product as defined in claim 20, wherein the computer-
2 executable instructions further comprise program code means for initiating transmission of
3 the user profile to an Internet service provider, wherein the advertisement is selected from
4 the plurality of advertisements at the Internet service provider.
5
6 23. A computer program product as defined in claim 20, wherein the computer-
7 executable instructions further comprise program code means for selecting the
8 advertisement from among the plurality of advertisements at the client terminal.
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10 24. A computer program product as defined in claim 23, wherein the computer-
11 executable instructions further comprise program code means for receiving the plurality of
12 advertisements from an advertisement source and storing the plurality of advertisements at
13 the client system.
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15 25. A computer program product as defined in claim 23, wherein the computer-
16 executable instructions further comprise program code means for inserting data representing
17 the selected advertisement into the information document.
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19 26. A computer program product as defined in claim 20, wherein the program
20 code means for monitoring television programming comprises program code means for
21 monitoring an electronic programming database that includes content descriptions associated
22 with the television programming.
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1 27. A computer program product as defined in claim 20, wherein the program
2 code means for monitoring television programming comprises program code means for
3 monitoring closed captioning information associated with the television programming.

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1 28. A system configured to display an information document including an
2 advertisement selected at least in part on television programming viewed by a user of the
3 system, the system comprising:
4 a home entertainment system for providing the television programming
5 viewed by the user, including:
6 a television programming feed for delivering the television
7 programming; and
8 a television for displaying the television programming; and
9 an information retrieval system including:
10 means for monitoring the television programming viewed by the user;
11 means for compiling a user profile, including at least information
12 associated with television programming viewed by the user;
13 means for requesting an information document from a server
14 computer; and
15 means for displaying the information document having the
16 advertisement included therein, wherein the advertisement has been selected
17 from a plurality of advertisements based at least in part on the user profile.

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19 29. A system as defined in claim 28, wherein the means for displaying the
20 information document comprises the television of the home entertainment system.

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22 30. A system as defined in claim 28, wherein the means for requesting an
23 information document comprises an Internet browser.

1 31. A system as defined in claim 28, wherein the means for monitoring the
2 television programming viewed by the user comprises an electronic programming database
3 monitoring unit.

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5 32. A system as defined in claim 28, wherein the means for monitoring the
6 television programming viewed by the user comprises a closed captioning monitoring unit.

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